

Materials List for:

Identification of Plant Ice-binding Proteins Through Assessment of Ice-recrystallization Inhibition and Isolation Using Ice-affinity Purification

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Materials

Name	Company	Catalog Number	Comments
1.5 mL microcentrifuge tubes	Fisher	05-408-129	
Adjustable lab jack	Fisher	S63080	
Bechttop centrifuge	Desaga MC2		
Brass probe	Custom built		
Camera/camera port	Canon		Canon Power Shot SX110 digital camera; custom built microscope port
Cheesecloth	Purewipe/Fisher Scientific	06-665-25A	
Concentration tubes (0.5 mL)	EMD Millipore	UFC501008	
Concentration tubes (15 mL)	EMD Millipore	UFC900308	
Conical tubes (50 mL)	Thermo Fisher	AM12502	
Cooling block	VWR	13259	Use a metal heating block
Dehumidifier	Whirlpool		50 pint Energy Star dehumidifier; purchase from local supplier
Dessication beads	t.h.e. Dessicant/VWR	EM-DX0017-2	6-8 mesh size; 100% indicating
Dissection microscope	Olympus Tokyo		
Double walled glass bowl	Generic		Purchase from local lab glassware supplier
Dry ice	Generic		Use local supplier; hazardous
EDTA-protease inhibitor tablets	Sigma Aldrich	11836170001	Roche cOmplete mini
Ethylene glycol	Generic		Green automotive ethylene glycol can be purchased from any local hardware store (i.e. Home Depot)
Hexane	Sigma Aldrich	296090	Anhydrous, 95%; hazardous
Immersion oil	Sigma Aldrich	56822	
JA10/20 centrifuge	Beckman		
Large plastic Petri dish	Generic		
Liquid nitrogen	Generic		Use local supplier; hazardous
Magnetic stir plate	Hanna Instruments	HI190M	
Microscope cover slides	Fisher	12-542A	
Plastic tube	Generic		Purchase PVC pipe from local hardware store
Polarized film	Edmund Optics	43-781	
Polystyrene foam	Generic		Can be constructed from polystyrene shipping boxes

Poreclain mortar and pestle	Fisher	FB961	
PVPP	Sigma Aldrich	77627	110 µm particle size
Retort Stand	Fisher	12-000	
Small stir bar	Fisher	14-513-51	
Temperature-programmable water bath	VWR	13271-118	
Vacuum grease	Dow Corning/Sigma Aldrich	Z273554	
Vinyl tubing	Generic		